

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number  
**WO 2005/086754 A2**

(51) International Patent Classification: Not classified

Holland, OH 43528 (US). KUMAR, Arvind [IN/US]; 75  
Jon-Jeff Drive, Lilburn, GA 30047 (US).

(21) International Application Number:  
PCT/US2005/007316

(74) Agent: TAYLOR, Jr., Arles A.; Jenkins, Wilson & Taylor,  
P.A., University Tower, Suite 1400, 3100 Tower Boulevard,  
Durham, NC 27707 (US).

(22) International Filing Date: 7 March 2005 (07.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/551,089 8 March 2004 (08.03.2004) US

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

(71) Applicants (for all designated States except US): GEOR-  
GIA STATE UNIVERSITY RESEARCH FOUNDA-  
TION, INC. [US/US]; University Plaza, Atlanta, GA  
30303 (US). THE GOVERNMENT OF THE UNITED  
STATES OF AMERICA as [US/US]; REPRESENTED  
BY THE SECRETARY, OF THE DEPARTMENT OF  
HEALTH AND HUMAN SERVICES, CENTERS FOR  
DISEASE CONTROL AND PREVENTION Washington,  
DC 20201 (US).

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BOYKIN, David,  
W. [US/US]; 1369 Springdale Road, NE, Atlanta, GA  
30306 (US). STEPHENS, Chad, E. [US/US]; 412 Old  
Mill Drive, Carrollton, GA 30117 (US). SECOR, W. Evan  
[US/US]; 2907 Thornbriar Road, Atlanta, GA 30340 (US).  
CROWELL, Andrea, L. [US/US]; 750 Culley Road,

Published:

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: DICATIONIC COMPOUNDS FOR ACTIVITY AGAINST TRICHOMONAS VAGINALIS

(57) Abstract: Dicationic compounds for the treatment of T. vaginalis infections are described. The presently described compounds exhibit in vitro activity against metronidazole-sensitive and -resistant T. vaginalis isolates. Furthermore, the presently described compounds demonstrate IC<sub>50</sub> concentrations that were not elevated in the metronidazole resistant isolate, suggesting that their activity is not affected by parasite mechanisms that confer resistance to 5-nitroimidazoles.



WO 2005/086754 A2